

## POLYMERIC PHOTOCHROMIC COMPOSITION

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**Applicant:** NIPPON TELEGRAPH & TELEPHONE

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- international: **C08L33/10; C08L33/04; C09K9/02; G03C1/73;  
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- European:

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### Abstract of **JP6240242**

**PURPOSE:**To obtain a polymeric photochromic compsn. which is homogeneous, high in concn., and free from defects such as leaching and has photochromic characteristics excellent in durability in repeated use, sensitivity, etc. **CONSTITUTION:**The compsn. comprises a polymer having diarylethene photochromic groups bonded to the polymer chain, i.e., having structural units of formula I or II (wherein R<1> is an alkylene group of which part of or all the H atoms may be replaced by F atoms; X and Y are each S, >N-R<2>, or Se; R<2> is an alkyl group of which part of or all the H atoms may be replaced by F atoms; each benzene ring may be substd.; R<4> and R<5> are each H or F; R<3> is an alkyl group of which part of or all the H atoms may be replaced by F atoms; and n is 0-3). Since the compsn. does not allow the photochromic groups to be dissolved out or to form microcrystals even when the concn. of the groups is high, it is stably used for along term. Therefore, the allowable range of change in absorbance or refractive index can widely be set, making the compsn. very suitable for optical use.

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